**Index of Claims** 

| Application/Control No | Appl | cation/0 | Control | No |
|------------------------|------|----------|---------|----|
|------------------------|------|----------|---------|----|

10/764,118 Examiner

Golam M. M. Shameem, Ph.D.

Applicant(s)/Patent under Reexamination

WASHBURN ET AL.

Art Unit

1626

| 1 | Rejected |
|---|----------|
|   | Allowed  |

|  | (Through numeral)<br>Cancelled |
|--|--------------------------------|
|  |                                |

Restricted

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla        | aim      | m Date   |          |                 |          |          | :::::        | Claim Date |           |           |         |          |          |          |                 | 7::::    | Claim Date   |              |                   |             |        |              |            |          |         |                               |              |  |          |               |     |
|------------|----------|----------|----------|-----------------|----------|----------|--------------|------------|-----------|-----------|---------|----------|----------|----------|-----------------|----------|--------------|--------------|-------------------|-------------|--------|--------------|------------|----------|---------|-------------------------------|--------------|--|----------|---------------|-----|
| T          |          |          |          |                 |          |          |              |            |           |           |         |          |          | $\dashv$ |                 |          |              |              |                   |             |        |              | _          | _        |         |                               |              |  |          |               |     |
| Final      | Original | 313012   |          |                 |          |          |              |            |           |           |         | Final    | Original |          |                 |          |              | l            |                   |             |        | Final        | Original   |          |         |                               |              |  |          |               |     |
| <b>├</b> ─ | 1        | 0        | L        | Н               | $\dashv$ | -        |              | $\dashv$   | $\dashv$  | -         |         |          | 51       | $\vdash$ | $\vdash$        | +        | +            | +            | +                 |             | -      |              | 1          | ├        | -       | +-                            | ╀            |  | _        |               |     |
|            | 2        | 1        | F        | $\vdash$        |          |          | $\dashv$     | $\dashv$   | $\dashv$  | -         |         |          | 52       | ⊢        | $\vdash \vdash$ |          | $\dashv$     |              | +                 | ⊢+-         | -      | <u> </u>     | 101        | -        | +-      | ┿                             | ╀            | $\vdash$   | -        |               |     |
|            | 3        | Λ        | $\vdash$ | $\vdash$        | $\dashv$ |          |              |            | _         | $\dashv$  |         |          | 53       | ┝        | $\vdash$        | +        | ┰            | +            | +                 | $\vdash$    | -      | <del> </del> | 102        | $\vdash$ | +-      | +                             | $\vdash$     | $\vdash$   | $\dashv$ |               |     |
| <b>—</b>   | 4        | ۲        | <b>!</b> | $\vdash$        | $\dashv$ | $\dashv$ | _            | $\dashv$   | +         | $\dashv$  |         |          | 54       | -        | Н               | $\dashv$ | $\dashv$     | +            | +                 | $\vdash$    | -      | <u> </u>     | 103        | $\vdash$ |         | ┿                             | ╁            | Н  | -        |               | _   |
|            | 5        | Н        | -        | $\vdash$        | ┪        | $\dashv$ | _            | $\dashv$   | 十         | -         |         |          | 55       |          | Н               | $\dashv$ | ╅            | +            | +                 | +           | -      | <u> </u>     | 105        | -        | ╁       | ╁                             | ╁╾           | Н  | -        |               | —   |
|            | 6        | Н        | $\vdash$ | Н               | $\dashv$ |          | $\neg$       | $\vdash$   | $\dashv$  | ٦         |         |          | 56       |          | H               | -        | -            | $\dashv$     | +-                |             | ┨      |              | 106        | ┝╼┼      | +       | +-                            | ╁┈           | $\vdash$   | $\dashv$ |               | _   |
|            | 7        | П        |          | П               | ᅥ        | $\neg$   |              | $\neg$     | $\dashv$  | -         |         |          | 57       |          | -               | 十        | $\dashv$     |              | +                 | -           | -      | _            | 107        | $\vdash$ | +-      | ╁                             | ╁╌           | Н  | $\dashv$ | -             | _   |
|            | 8        | П        |          | П               | _        | $\neg$   | $\neg$       | $\neg$     | _         |           |         |          | 58       | _        | $\vdash$        | $\dashv$ | +            | $\dashv$     | +                 | $\vdash$    | ١      |              | 108        | -        |         | ╁                             | $\vdash$     |  | -        |               | _   |
|            | 9        | П        |          |                 |          |          |              |            |           | $\exists$ |         |          | 59       | $\vdash$ | П               | $\neg$   | _            | $\neg$       | +                 | $\vdash$    | ١      |              | 109        | $\vdash$ | +       | +-                            | 十            | Н  | ᅥ        | _             | _   |
|            | 10       | П        |          | П               | $\neg$   |          | $\neg$       |            | $\neg$    |           |         |          | 60       |          |                 | T        | T            | 7            | 1                 |             | ٦      |              | 110        | -        |         | +                             | H            |  | _        | _             | _   |
|            | 11       | П        |          |                 |          |          | $\neg$       |            |           |           |         |          | 61       |          | $\Box$          | 寸        | $\neg$       |              | 1                 |             | ٦      |              | 111        |          | +       | †                             |              | $\vdash$   |          | $\neg$        | _   |
|            | 12       |          |          |                 |          |          | $\neg$       |            |           |           |         |          | 62       |          | П               |          |              |              |                   |             | 7::::  |              | 112        | $\dashv$ | ╅       | 1                             |              | П  |          |               | _   |
|            | 13       |          |          |                 |          |          |              |            |           |           |         |          | 63       |          | П               |          |              | $\top$       |                   |             | 7      |              | 113        |          |         | $\top$                        |              | Ħ  |          |               |     |
|            | 14       |          |          |                 |          |          |              |            |           |           |         |          | 64       |          |                 |          |              |              |                   |             | 7      |              | 114        |          | _       | <b>T</b>                      |              |  | $\neg$   |               | _   |
| L          | 15       |          |          |                 |          |          |              |            | $\perp$   |           | [       |          | 65       |          |                 |          |              |              |                   |             |        |              | 115        |          |         |                               |              | П  | $\neg$   |               |     |
|            | 16       | Ш        |          | Ш               |          |          |              |            |           | _         |         |          | 66       |          |                 |          |              |              |                   |             |        |              | 116        |          |         |                               |              |  |          |               |     |
| <u> </u>   | 17       | Ц        | <u> </u> | Ш               |          |          |              |            |           | _         |         |          | 67       |          |                 |          |              |              |                   |             |        |              | 117        |          |         |                               |              |  |          |               |     |
| <u> </u>   | 18       | П        |          |                 | 4        | _        |              |            | _         | $\perp$   |         |          | 68       |          | Ш               |          |              | _            |                   |             | ]      |              | 118        |          |         |                               |              |  |          |               |     |
| <u> </u>   | 19       | Ц        | L        | Н               | _        | _        |              |            |           | _         |         |          | 69       |          |                 | $\perp$  |              |              |                   |             | _      |              | 119        |          |         | "                             |              |  |          |               |     |
|            | 20       | Н        | _        |                 | _        | 4        |              |            | 4         | _         |         |          | 70       | Ш        |                 |          | $\perp$      |              |                   |             | _      |              | 120        |          |         |                               |              |  |          |               |     |
|            | 21       | $\sqcup$ | <u> </u> | $\sqcup$        | 4        | _        | $\dashv$     |            | 4         | _         |         |          | 71       |          |                 |          |              |              | $\perp$           |             | _      | L.,          | 121        |          |         |                               |              |  |          |               |     |
|            | 22       | V        | _        | $\vdash$        |          |          | $\dashv$     | -          |           | 4         |         |          | 72       |          |                 | _        | _            | _ _          | $\bot$            |             | 4      |              | 122        |          | _       | <u> </u>                      | _            |  | $\perp$  | $\Box$        |     |
|            | 23       | 4        | _        | $\sqcup$        | 4        | $\dashv$ | $\dashv$     | _          | _         | 4         |         |          | 73       |          |                 | _        | 4            |              |                   |             | 4      |              | 123        |          |         |                               | L            |  |          |               |     |
| <u> </u>   | 24       | 9/4      | <u> </u> | $\vdash$        |          | _        |              |            | 4         | 4         |         |          | 74       | _        |                 | _        | _            | _            | $\bot$            |             | 4      |              | 124        |          |         | $\perp$                       | _            |  |          |               |     |
|            | 25       | _        | <u> </u> | $\vdash$        | -        | -        |              | -          | -         | -         |         |          | 75       |          |                 | 4        | 4            |              | $\perp$           |             | _ !!!! |              | 125        |          |         | $\perp$                       | ┖            |  | _        | _             |     |
|            | 26<br>27 |          | ┝        | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$   | $\dashv$  | -         |         |          | 76       | Н        | -               | $\dashv$ | +            |              | +                 | -           | -      |              | 126        |          |         | ╄                             | _            |  | _        | _             |     |
|            | 28       | _        | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$ | ᅱ            | $\dashv$   | $\dashv$  | -         | -       |          | 77<br>78 | Н        | -               | -+       | +            | +            | -                 | -           | -      |              | 127        |          | +-      | ╄                             | ┡            |  | _        |               |     |
|            | 29       |          | $\vdash$ | $\vdash$        | +        | $\dashv$ | $\dashv$     | $\dashv$   | +         | -         | H       |          | 79       | Н        |                 | $\dashv$ | $\dashv$     |              | +                 |             | 4      |              | 128        | -        | +       | +                             | ⊢            | $\vdash$   | -        |               |     |
| _          | 30       |          | -        | $\vdash$        | $\dashv$ | $\dashv$ | -            | $\dashv$   |           | -         | ⊪       |          | 80       | $\vdash$ | -               |          | +            |              | +                 | +           | -      |              | 129        | -        | +-      | +                             | -            | $\vdash$   |          | -             |     |
| _          | 31       |          | ┝        | $\vdash$        | $\dashv$ | -        |              | $\dashv$   | $\dashv$  | -         | ⊪       |          | 81       | -        | -               | -+       | +            | +            | ╅┥                | -           | -      |              | 130        |          | -       | +                             | -            | $\vdash$   | -        |               |     |
|            | 32       |          | -        | _               | $\dashv$ | +        | ᅱ            | $\dashv$   | $\dashv$  | $\dashv$  | ŀ       | $\dashv$ | 82       |          | +               | +        | +            | +            | +                 |             | -      |              | 131<br>132 | -        | ┿       | ┿                             | ├            | $\vdash$   | $\dashv$ | -             |     |
|            | 33       |          |          |                 | $\dashv$ | _        | _            | +          | +         | -         | iii t   |          | 83       |          | $\dashv$        | +        | +            | +            | +                 | -           | -      |              | 133        |          | ┿       | H                             | ┝            | $\vdash$   | $\dashv$ | -             | _   |
|            | 34       |          |          | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$   | $\dashv$  | $\dashv$  | ı       |          | 84       | $\vdash$ | -               | $\dashv$ | +            | +            | +                 | -           | -      |              | 134        |          | +       | ╆                             | ╁            | <del>                                     </del> | $\dashv$ | -             |     |
|            | 35       |          |          |                 | 7        | _        | $\exists$    | 7          | 十         | $\exists$ | <b></b> |          | 85       | $\vdash$ | _               | $\dashv$ | $\dashv$     | $\dashv$     | +                 | +           | -      |              | 135        | $\dashv$ | +       | +                             | $\vdash$     | $\vdash$   | $\dashv$ | ᅱ             |     |
|            | 36       |          |          | $\Box$          | 7        | $\dashv$ |              | 7          | 十         | $\dashv$  | iii t   |          | 86       | $\vdash$ | $\dashv$        | $\dashv$ | $\dashv$     | <del> </del> | 1-                | $\dashv$    | -      | -            | 136        |          | +-      | +                             | ┢            | $\vdash$   | ┰        | $\dashv$      | _   |
|            | 37       |          | Г        | $\Box$          | 寸        | 7        |              | $\dashv$   | 7         | 7         | ii)     |          | 87       | $\dashv$ | $\dashv$        | $\dashv$ | +            | +            | +                 | $\dashv$    | 1      |              | 137        | $\dashv$ | +-      | +-                            | <del> </del> | $\vdash$   | -+       | $\dashv$      |     |
|            | 38       |          |          |                 | 寸        | $\dashv$ |              | 寸          | 7         | ٦         |         |          | 88       | $\dashv$ | 1               | $\dashv$ | $\dashv$     | $\dashv$     | $\dagger \exists$ | -           | 7      |              | 138        | +        | +       | +                             | t            | $\vdash$   | $\dashv$ | ᅥ             | —   |
|            | 39       |          |          |                 | J        |          |              |            |           |           |         |          | 89       | $\Box$   | $\dashv$        | $\dashv$ | $\top$       | _            | $\top$            | _           | 1      |              | 139        | $\dashv$ | $\top$  | 1-                            |              |  | 一        | $\dashv$      | _   |
|            | 40       |          |          |                 | I        |          |              |            |           |           |         |          | 90       |          |                 | $\Box$   |              |              | $\top$            | $\neg$      | 1      |              | 140        | 一        | 1       | $\top$                        | Г            |  | 7        | $\dashv$      | _   |
|            | 41       |          |          | $\Box$          | $\Box$   |          |              |            | $\perp I$ |           |         |          | 91       |          |                 | $\Box$   | floor        | I            |                   |             | ]      |              | 141        |          | T       | T                             | $I^-$        | $\Box$   | $\dashv$ | $\dashv$      | _   |
|            | 42       |          |          | $\Box$          | $\bot$   | J        | I            | $\Box$     | $\perp$   |           |         |          | 92       |          |                 | Ι        | ightharpoons |              |                   |             |        |              | 142        |          |         |                               |              | П  | _        | 7             |     |
| L          | 43       |          |          | <u> </u>        | $\dashv$ | $\bot$   | _[           | [          |           |           |         |          | 93       |          | $\Box$          | $\Box$   | $\Box$       |              |                   |             |        |              | 143        |          |         |                               |              |  |          |               |     |
|            | 44       |          |          |                 | $\perp$  |          | $\downarrow$ | _          | $\perp$   | _         |         | ]        | 94       |          | $\perp$         |          |              |              |                   | $\Box \Box$ |        |              | 144        |          |         | oxdot                         |              |  |          |               |     |
|            | 45       |          |          | $\dashv$        | _        | _        | _            | _          | $\bot$    | _         | iiiL    |          | 95       |          | $\perp$         | $\perp$  | $\perp$      | $\perp$      | ot                |             |        |              | 145        |          |         |                               |              |  |          |               |     |
|            | 46       |          |          | _               | $\dashv$ |          | $\dashv$     | $\dashv$   | $\perp$   | 4         | Ļ       |          | 96       | _        |                 | $\perp$  |              | $\perp$      | $\bot$            | _           | _      |              | 146        |          | L       | 匚                             | L            |  | $\prod$  | $\Box$        |     |
|            | 47       | _        |          | _               | $\dashv$ |          | $\dashv$     | 4          | $\dashv$  | 4         | 1       |          | 97       | _        | _               | _        | $\perp$      |              | $\sqcup$          |             | _      |              | 147        |          | $\perp$ | $\perp$                       |              | Ш  |          | $\Box$        |     |
| $\vdash$   | 48       | _        |          | -+              | +        |          | +            | -          | +         | 4         | ŀ       |          | 98       |          | -               | 4        | 4            |              | $\sqcup$          | _  _        | 4      |              | 148        |          | ↓       | <u> </u>                      | Ш            | Ш  | $\perp$  | ightharpoonup |     |
|            | 49<br>50 |          |          | -               | +        | $\dashv$ | +            | $\dashv$   | - -       | -         | -       | $\dashv$ | 99       |          | +               | 4        | +            |              | 1                 |             | -      |              | 149        |          | $\bot$  | $oldsymbol{oldsymbol{\perp}}$ | <u> </u>     | Ш  | 4        | _             |     |
|            | <u> </u> |          |          | _ 1             |          |          |              |            | - 1       | _]::      | ::::    | - 1      | 100      | - 1      | - 1             | - 1      | - 1          | - 1          | 1 1               | - 1         | 1::::: |              | 150        | ı        | 1       | 1                             | ı            |  | - 1      | - 1           | - 1 |